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DIALOG(R) File 351:Derwent WPI  
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WPI Acc No: 1982-87404E/198241

**Electrically active liquid polyacrylate and polymethacrylate crystals -  
contg. cyano-diphenyl gps. and used in mfr. of polarising and other  
optical filters, used in optics**

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Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
SU 887574	B	19811207				198241 B

Priority Applications (No Type Date): SU 2894400 A 19800318

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
SU 887574	B		3		

Abstract (Basic): SU 887574 B

Liquid poly(meth)acrylate crystals of formula (I)  $-(H_2S-C(A)(R))_p-$  where R is H or CH<sub>3</sub>, n is 2-11, X is -O-, -CH<sub>2</sub>- or -COO-, A is gp. of formula (Ia) are obtd. by radical polymerisation of the corresp. monomers in dry benzene or tetrahydrofuran, using alpha, alpha'-azobis-isobutyronitrile or dicyclohexyl peroxydicarbonate as initiator.

The cpds. assume a definite orientation when placed in an electric field and find use in the mfr. of polarising and light filters and in optical data recording.

Tests show that the proposed polymers can be oriented in an electric field at lower temps. of 60-90 deg. compared with 190-210 deg. C. reqd. by the known polymers. Bul.45/7.12.81. (3pp)

Title Terms: ELECTRIC; ACTIVE; LIQUID; POLYACRYLATE; POLYMETHACRYLATE;  
CRYSTAL; CONTAIN; CYANO; DI; PHENYL; GROUP; MANUFACTURE; POLARISE;  
OPTICAL; FILTER; OPTICAL

Derwent Class: A14; A85; L03; U11

International Patent Class (Additional): C08F-120/34

File Segment: CPI; EPI